From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

CHAS.HUDE A/S H.C. Andersens Boulevard 33 DK-1780 Copenhagen V DANEMARK

7 76888 14

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 71.1)

Date of mailing

(day/month/year)

15.10.2003

Applicant's or agent's file reference

76888 HD/Ve

PCT/DK03/00013

International filing date (day/month/year)

10.01.2003

Priority date (day/month/year)

11.01.2002

Applicant

LM GLASFIBER AS

International application No.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:

<u>)</u>))

European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl Fax: +31 70 340 - 3016 Authorized Officer

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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 76888 HDNe			•	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)				
International application No. PCT/DK03/00013				International filing d	ate (day/mon	th/year)	Priority date (day/month/year) 11.01.2002	
	mation 9C70		ent Classification (IPC) or	both national classificati	ion and IPC			
	licant GLA	SFIB	ER A/S					
1.	This Autl	s inter hority	national preliminary ex and is transmitted to th	amination report has t ne applicant according	peen prepar to Article 3	red by this 6.	nternational Preliminary Examining	
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.							
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
	These annexes consist of a total of sheets.							
3.	This	repo	rt contains indications r	relating to the following	items:			
	ı	⊠	Basis of the opinion		,			
	11		Priority					
	Ш		•	coninion with regard to	novelty in	ventive ste	o and industrial applicability	
	IV		Lack of unity of inven		, 110veny, 111	vernive sto	o and modernal applicability	
	٧	\boxtimes	Reasoned statement		with regard statement	to novelty,	inventive step or industrial applicability;	
	VI		Certain documents ci					
	VII		Certain defects in the	international applicati	on			
	VIII		Certain observations	on the international ap	plication			
Date o	Date of submission of the demand				Date of c	ompletion of	this report	
31.07.2003					15.10.2	15.10.2003		
Name and mailing address of the international					Authorize	Authorized Officer		
preliminary examining authority: European Patent Office - P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk - Pays Bas Tel. +31 70 340 - 2040 Tx: 31 651 epo nl					Van Wa	allene, A	LEUTEN SECRET RESIDENCE PROPERTY OF THE PROPER	
		Fax	: +31 70 340 - 3016		Telephon	e No. +31 7	340-3611	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/DK03/00013

l. Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-1	o	as originally filed					
	Cla	ims, Numbers						
	1-9		as originally filed					
	Dra	wings, Figures						
	1-10	D	as published					
2.	Witl lang	n regard to the langu guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	The	These elements were available or furnished to this Authority in the following language: , which is:						
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publ	lication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).					
3.	Witl inte	n regard to any nucle rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inte	rnational application in written form.					
		filed together with th	e international application in computer readable form.					
		furnished subsequer	ntly to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.					
		The statement that t in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.					
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have r	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

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5. 🗆	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).
	(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims
No: Claims

Inventive step (IS)

Yes: Claims
1-9
No: Claims

Industrial applicability (IA)

Yes: Claims
1-9
No: Claims

2. Citations and explanations

see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Reference is made to the following document:

D1: US-A-4915590

Novelty

None of the prior art documents show the features of the embedding element, its method of manufacture nor their use in the manufacture of wind turbaine rotors as defined in the independent claims 1, 5 and 8 respectively. Therefore the subject matter of the claims is novel (Rule 64 (1)-(3) PCT).

Inventive step

Prior art:

Fibre reinforced composite elements with incorporated bolts or bolt fixtures as shown in document D1

Problem:

When manufacturing fibre reinforced composites, problems occur to position bolts or bolt fixtures relative to each other with sufficient positional accuracy. Another problem is the insufficient bonding between the bolt or bolt fixture and the composite part.

Solution:

Producing embedding elements with fastening means with convex and concave faces in accordance with the characterising part of claim 1. A multitude of such elements, can be assembled as claimed in claim 8 and bonded together in fibre reinforced composite materials. Pre fabrication of such parts as defined in claim 5 allows good bonding of the bolt or bolt fixtures as well as easy and accurate positioning.

None of the prior art documents discuss nor solve the problem of relative positioning accuracy of connecting element inserts in composite parts. Therefore the method, the product as well as its use are novel and inventive (Art. 33(3) and Rule 65 (1)(2) PCT).

Industrial applicability

The subject matter of the claims is industrial applicable in the field of composite

INTERNATIONAL PRELIMINARY

International application No. PCT/DK03/00013

EXAMINATION REPORT - SEPARATE SHEET

moulding techniques and thus fulfilling the requirements of Article 33(4) PCT.